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### PATENT COOPERATION TREATY

To:			·		PCI
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORIT (PCT Rule 43 <i>bis</i> .1)	
				Date of mailir	_
	licant's or agent's file			FOR FURTHER ACTION See paragraph 2 below	
	mational application l T/GB2006/05011		•	lay/month/year)	Priority date (day/month/year) 20.05.2005
INV	7. H01Q1/00 H01	sification (IPC) or both national Q1/42 H01Q1/28 B32B27			2 G02B5/28
	licant DS ASTRIUM LII	MITED			
	This solution as		- 4- 4b - 5-11a		
1.	inis opinion co	ontains indications relatin	g to the load	owing items:	
	☑ Box No. i	Basis of the opinion			
	☐ Box No. II	Priority			
	☑ Box No. III	Non-establishment of opin	nion with rega	rd to novelty,	inventive step and industrial applicability
	☐ Box No. IV	Lack of unity of invention			
	☐ Box No. V	Reasoned statement unde applicability; citations and			gard to novelty, inventive step or industrial ich statement
	☐ Box No. VI	Certain documents cited			
	☐ Box No. VII	Certain defects in the inter	rnational appl	ication	
	☐ Box No. VIII	Certain observations on th	ne internation	al application	
2.	FURTHER ACTI	ON			
	written opinion o the applicant cho	f the International Prelimina poses an Authority other tha eau under Rule 66.1 <i>bis</i> (b) t	ry Examining in this one to	Authority ("IP be the IPEA a	ion will usually be considered to be a EA") except that this does not apply where and the chosen IPEA has notifed the International Searching Authority
	submit to the IPE	EA a written reply together, mailing of Form PCT/ISA/22	where approp	riate, with am	of the IPEA, the applicant is invited to endments, before the expiration of 3 months if 22 months from the priority date,
	For further option	ns, see Form PCT/ISA/220.			
3.	For further detail	s, see notes to Form PCT//	SA/220.		•
Name and mailing address of the ISA:		Date of co	mpletion of n	Authorized Officer	
		Patent Office	see form		ligeophic H
	D-80298 M Tel. +49 89	1unich 9 2399 - 0 Tx: 523656 epmu d	PCT/ISA/2	10	Jäschke, H
		9 2399 - 4465	}		Telephone No. +49 89 2399-7139

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2006/050114

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	Box	No. I Basis of the opinion		
1.	With	regard to the language, this opinion has been established on the basis of:		
	⊠ t	he international application in the language in which it was filed		
		translation of the international application into , which is the language of a translation furnished for the ourposes of international search (Rules 12.3(a) and 23.1 (b)).		
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:			
	a. typ	pe of material:		
		a sequence listing		
		table(s) related to the sequence listing		
	b. for	mat of material:		
		on paper		
		in electronic form		
	c. time of filing/furnishing:			
		contained in the international application as filed.		
		filed together with the international application in electronic form.		
		furnished subsequently to this Authority for the purposes of search.		
3.	h c	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
4.	4. Additional comments:			

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2006/050114

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	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
-	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of					
	the entire international application					
	claims Nos.					
because:						
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (specify):					
	the description, claims or drawings (indicate particular elements below) or said claims Nos. 1-11 are so unclear that no meaningful opinion could be formed (specify):					
	see separate sheet					
C	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinicould be formed (specify):					
	no international search report has been established for the whole application or for said claims Nos.					
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:					
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.					
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.					
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 ter. 1(a) or (b).					
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.					
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
	See Supplemental Box for further details					

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2006/050114

1. The following document D1 is referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: EP1208394 A2 (US family member US6587263 B1 cited by applicant)

- 2. The application does not meet the requirements of Article 6 PCT, because claim 1 is completely and utterly unclear.
- 2.1 The application is completely based upon the disclosure of D1. The European Patent Application D1 has been withdrawn for the following reasoning:

  The application "is not clear as it contains no technical teaching about the materials suitable for the different layers. To carry out the invention a skilled person needs to become himself inventive to derive a choice of materials suitable. Therefore" the claims "are considered cumbersome and speculative".
- 2.2 As current claim 1 does not contain any technical teaching about the materials suitable for the different layers, Paragraph 2.1 applies mutatis mutandis.
- 2.3 Furthermore, Paragraph 2.2 notwithstanding, the subject matter for which protection is sought is not defined. The claims attempt to define the subject-matter in terms of the result to be achieved, which merely amounts to a statement of the underlying problem, without providing the technical features necessary for achieving this result.
- 2.4 It is further not understood by the examiner, how it is possible to achieve up to a wavelength of 2,5μm (2500nm) a low absorbency and from a wavelength of 2,5μm a high absorbency. Such abrupt changes appear not to be possible in nature. If clarification is not possible, the application does not fulfil the requirements of Article 5 PCT.
- 3. Examination will be resumed upon a new set of claims drafted in accordance with the respective articles of the PCT.
  - To proceed the applicant is expected to provide full background information about technical feasibility and to comment novelty and inventive step with respect to the documents of the international search report.